UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,844	12/03/2004	Mikko Veikkolainen	AWEK 3167	7448	
7812 SMITH-HILL	7812 7590 01/08/2008 SMITH-HILL AND BEDELL, P.C.			EXAMINER	
16100 NW CORNELL ROAD, SUITE 220			FLORES SAN	FLORES SANCHEZ, OMAR	
BEAVERTON	, OR 97006		ART UNIT PAPER NUMBER 3724		
		•			
•			MAIL DATE	DELIVERY MODE	
			01/08/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			()				
		Application No.	Applicant(s)				
ì		10/516,844	VEIKKOLAINEN ET AL.				
	Office Action Summary	Examiner	Art Unit ,				
		Omar Flores-Sánchez	3724				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖾	Responsive to communication(s) filed on <u>03 October 2007</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.				
Disposit	ion of Claims	•					
5)□ 6)⊠ 7)□	Claim(s) <u>15-22</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>15-22</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	ion Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
11)[_]	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachmen		a> □ 1-4	· (PTO 412)				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)	ite				

Application/Control Number:

10/516,844

Art Unit: 3724

DETAILED ACTION

1. This action is in response to applicant's amendment received on 10/03/07.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 15-18, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clarino et al. (5,831,857) in view of Bruder et al. (5,258,917).

Clarino et al. discloses the method substantially as claimed including the step of: placing the piece to be cut on a cutting surface located within the recording area (see Fig. 6), recording an image of the piece (see Fig. 3), providing information regarding outlines of the piece to a positioning system (col. 9, lines 25-42), selecting at least one type of a small part and employing the positioning system to place a desired number of instances (see Fig. 3-4), employing the control system to determine cutting parameters (see Fig. 4), and cutting the piece (see Fig. 8), positioning the sheet automatically to optimize the cutting path (see Fig. 4). Also, Clarino et al. discloses the claimed invention except that a digitizing puck/light source (see col. 4, lines 65-66) instead of camera means/laser bar. Bruder et al. shows that camera means/laser bar (5 and 6) (see col. 3, lines 24-26) is equivalent structure known in the art. Therefore, because theses two recording image device were art-recognized equivalents at the time the invention was made, one

Application/Control Number:

10/516,844

Art Unit: 3724

Page 3

of ordinary skill in the art would have found it obvious to substitute a digitizing puck for camera

means. Clarino et al. is capable of determining a starting point of the cutting and the cutting

paths automatically or by operator-aided means. Clarino et al. discloses positioning the sheet

automatically to optimize the cutting path (see col. 4, lines 1-4). The coordinate controlled cutter

69 of Clarino et al. is capable of changing the operation of the cutting apparatus from

incremental to absolute coordinate system.

4. Claims 19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clarino

et al. (5,831,857) in view of Bruder et al. (5,258,917) as applied to claim 15 above, and further in

view of Scott (6,246,025 B1).

The modified device of Clarino et al. discloses the invention substantially as claimed

except for a thermal controlled cutting machine. However, Scott teaches the use of a thermal

controlled cutting machine 30 for the purpose of cutting greater thicknesses metal material (see

col. 2, lines 20-44). It would have been obvious to one having ordinary skill in the art at the time

the invention was made to have modified the device of Clarino et al. by providing the thermal

controlled cutting machine as taught by Scott in order to obtain a device that cuts greater

thicknesses metal material.

Response to Arguments

5. Applicant's arguments with respect to claims have been considered but are moot in view

of the new ground(s) of rejection.

Application/Control Number:

10/516,844 Art Unit: 3724

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omar Flores-Sánchez whose telephone number is 571-272-4507. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ofs 1/3/2008

BOYER D. ASHLEY SUPERVISORY PATENT EXAMINER